

Abrasion Resistant Cable Liner

FITCO[®] Liner HP650

Description

Heavy duty abrasion resistant anti-friction control cable liner with a proprietary high temperature polymer filler for maximum efficiency under high loads. A PTFE filled composite ensures maximum service lifetime while maintaining anti-slip characteristics even in high temperature environments.

Applications

Ideally suited moderate duty cables used in accelerator clutch and automatic transmission. Loads of up to 25 lbs and difficult routing with longest life cycle requirements.

Features

- ✓ Average efficiency of 90% over 1,000,000 cycles with 25 lb. load
- ✓ Jacketed liner offers significant weight reduction compared to steel
- ✓ Anti-Friction liner eliminates “stick-slip”
- ✓ Sound transmission via structure-born noise path reduction

Operating temperature:	+ 200°C
Standard color:	Yellow
Base material:	PTFE
Filler:	Proprietary high temperature polymer
Particle size of filler:	90% @ < 20 micron

Parameters

Test cycles	1,000,000 cycles
Spring load	6-18 Lbs. / 26.7-80N
Initial efficiency	88%
Final efficiency	92%
Loss factor K, In. ³ -min/Lbs-ft.-hr. (tested dry)	7.5

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Properties	Test Method	Typical Value
Mechanical		
Tensile strength	ASTM D 638	38.8 MPa / 5623 psi
Elongation	ASTM D 638	313%
Specific gravity	ASTM D 792 – Method A-1	2.11
Dimensional Capability (ID and OD)	AIAG MSA	Cp 2.722 / Cpk 2.482
Durometer shore D (15 sec)	ASTM D 2240	55
Thermal		
Melt point	DSC 20°C / min	PTFE @ 327°C Filler degrades @ > 450°C
Chemical		
Chemical resistance	Immersion, 1 week @ 25°C	No swelling or loss of mechanical properties